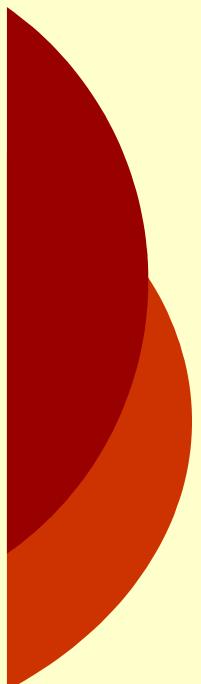


EIA 859 HANDBOOK HIGHLIGHTS

38th Annual Engineering & Technical
Management Conference
September 13-17, 2004
Biloxi, MS



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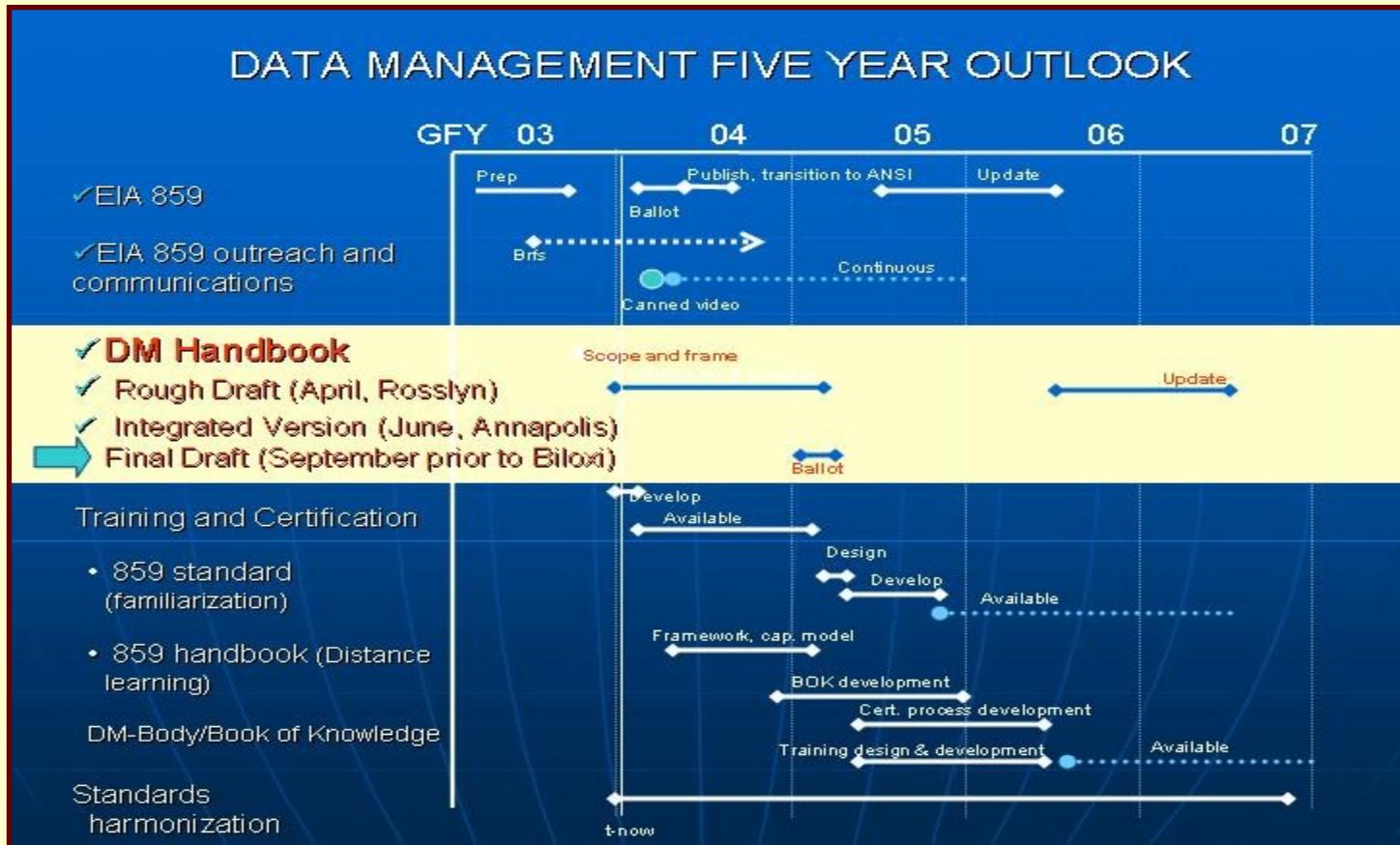
- We Have EIA 859 – So Why Have A Handbook?**
 - Users Guide For Implementing Data Management (DM), Regardless Of Project Size, Complexity, Customer, Or Business Objective**
 - Discusses Best Practices, Consistent With EIA 859, That Can Be Used A Guides To Successful DM Implementation**

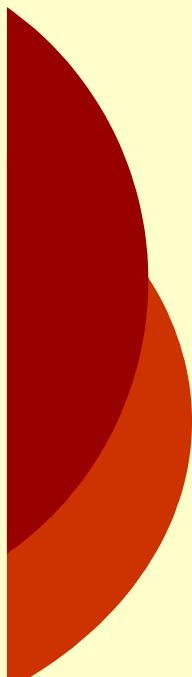
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HIGHLIGHTS

Activity Started January 2004

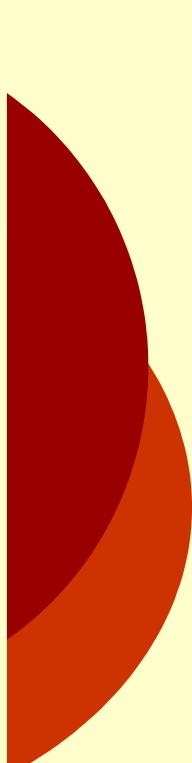
- Rough draft complete and Red Team review
- Consistent with Five Year Outlook





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- **How Did We Accomplish This In Less Than 9 Months?**
- **Lots Of Hard Work**
- **Frequent Communications**
 - **Weekly Telecoms**
- **Dedicated DM Professionals**



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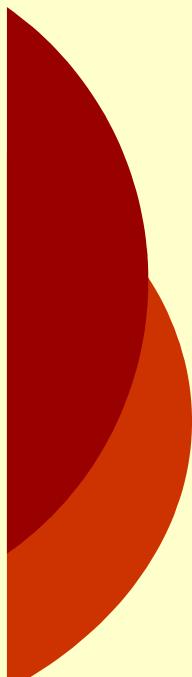
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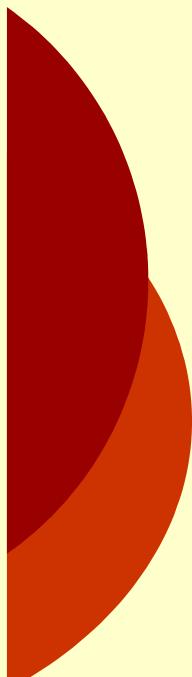
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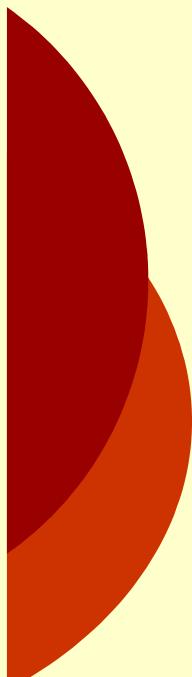
HANDBOOK CONTENTS



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Principle 1: Define The Enterprise Relevant Scope Of DM

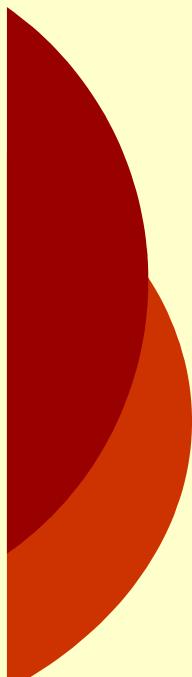
- **Business Environment Has Changed Radically**
 - Complex Partnering Relationships
 - Sophisticated Electronic Systems
 - Customer Expectations → Commercial Environment
- **Develop A DM Strategy And Architecture**
 - Maximize Flexibility In Data Delivery And Distribution
 - Design Processes That Accommodate Change
- **Three Steps:**
 - Establish A DM Process And Infrastructure Design
 - Execute The DM Solution And Process
 - Maintain The DM Process And Infrastructure



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Principle 2: Plan For, Acquire, And Provide Data Responsive To Customer Requirements

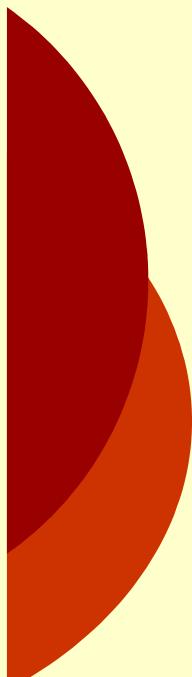
- **Establish General Requirements For Data**
 - Organizational Requirements
 - Formats
 - Storage/Delivery Tools
- **Determine Specific Data Requirements**
 - Consider Project Lifecycle, Users, Functional Area For Data Generation, And Distribution
 - Data “Shopping List”
- **Risk Analysis**
 - Data Loss
 - Retrieval
 - Data Obsolescence



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Principle 3: Develop DM Processes To Fit The Business Environment

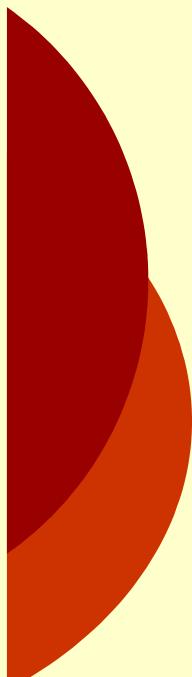
- **Data Requirements Are A Process Driver**
- **Determine The DM Solution**
 - **Prioritization And Trade-offs**
 - **Develop Alternative Solutions**
 - **Select Best Solution And Compare To Existing Enterprise Capability (Infrastructure & Processes)**
- **Adjust Processes**
 - **Gap Analysis - What You Need And What You Have**
 - **Fill In The Gaps And Implement**
- **Monitor Implementation And Make Corrections**



EIA 859 HANDBOOK HIGHLIGHTS

Principle 4: Identify Data Products And Views So That Their Requirements And Attributes Can Be Controlled

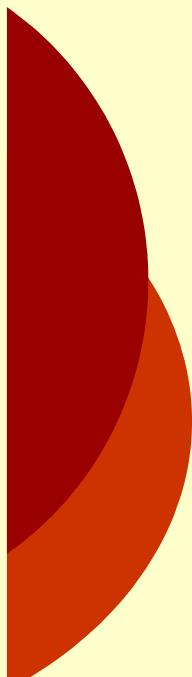
- **Data Product Identification Enables The Control Of Requirements And Attributes**
 - Start With Identification Of Requirements, Users, And Maintainers To Determine Attribute Types
- **Develop Consistent Methods For Describing Data**
 - Needed For Effective Communication
 - Coordinate Development Of Attributes Among Users
- **Establish Relevant Attributes To Define Data**
 - Metadata - Data About Data
 - Data Dictionaries Of Common Attributes



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Principle 5: Control Data Assets Using Approved Change Control Processes

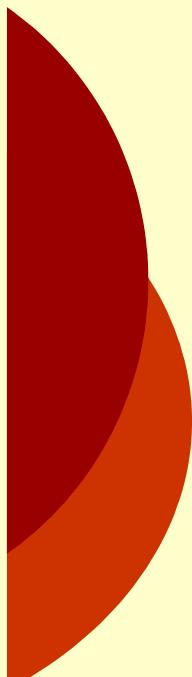
- **Why Data Is Controlled**
 - **Data Is A Valuable Asset**
 - **Costs \$\$\$S To Generate, Manage, And Deliver**
- **What Data Is Controlled**
 - **CM → Product Data**
 - **DM → All The Rest**
- **Levels Of Control**
 - **Formal Change Control (Using CM Principles)**
 - **Revision Control**
 - **Custody Control**



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Principle 6: Identification Of Intellectual Property Data

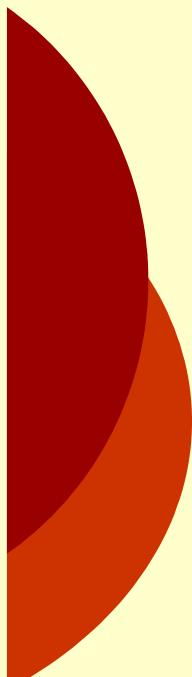
- **Intellectual Property - Creations Of The Mind That Are Given Legal Rights Often Associated With Real Or Personal Property.**
- **Intellectual Property → Proprietary And Competition-Sensitive Data, And Patents**
- **Protects Ownership And The Right To Use The Idea And Sell It In The Marketplace For Profit.**
 - **Protection Of Intellectual Property Data**
 - **Sharing/Granting Access To Intellectual Property Data**
 - **Marketing Intellectual Property**



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Principle 7: Data Is Retained Commensurate With Its Potential Value To The Organization/Customer

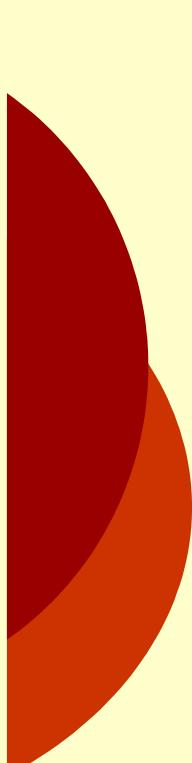
- **Create An Organizational Behavior That Will Ensure Data Is Retained**
 - **Plan To Ensure That Data Is Available When Later Needed**
 - **Maintain Data Assets And An Index Of Enterprise Of Data Assets**
 - **Storage Formats - Paper, Portable Storage, Local Hard Drive, File Server, Web Server**
 - **Assess The Current And Future Value Of The Enterprise's Data Holdings**
 - **Disposition**



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Principle 8: Continuously Improve Data Management

- **Establish And Maintain A Metric Process And Reporting Strategy**
- **Develop And Implement A Process Improvement Plan**
- **Identify Areas In Need Of Improvement**
 - **Self Assessment And Peer Reviews**
 - **Lessons Learned And Best Practices**
- **Develop And Maintain Infrastructure To Support Process**
 - **Tools**
 - **Training**
 - **Feedback Loop Established**
 - **Don't Shoot The Messenger**



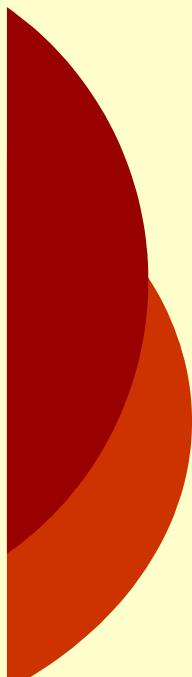
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Principle 9: Effectively Integrate Data Management And Knowledge Management

- **DM Is An Integral Part Of KM**



- **Information**
 - **Data Becomes Information When It Is Organized And Understood**
- **Knowledge**
 - **Information Becomes Knowledge When It Is Put Into Context**
- **Knowledge Management Is The Processes Surrounding The Creation, Capturing, Organizing And Sharing Of Knowledge.**



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Complete by
December 2004

